

**REMARKS**

Claims 1-7, 9-13, and 23 are pending after entry of this paper. Claims 1-7 and 9-13 have been allowed. Claims 15-17 and 19-25 have been rejected. Claims 8, 14, and 18 remain cancelled without prejudice. Applicants have also cancelled claims 15-17, 19-22, and 24-25. Applicants reserve the right to pursue cancelled claims in a continuing application.

Claim 23 has been amended to recite “central with regard to the stationary fluidized bed.” Support may be found throughout the instant specification, for example, in the claims and drawings as originally filed. No new matter has been introduced by these amendments.

Reconsideration and withdrawal of the pending rejections in view of the above claim amendments and below remarks are respectfully requested.

**April 24, 2008 Related Case Submission**

Under MPEP §2001.06(b), it is suggested that disclosure be made of related pending applications which may contain or refer to information that is “material to patentability” of the subject patent application. In the spirit of this provision, applicants have previously identified pending patent applications in a paper captioned “Related Case Submission” filed on April 24, 2008. Applicants wish to point out that most of said related patent applications have been subject to examination by the USPTO by several different examiners in several different art units and references have been cited by examiners in at least some of those applications. For the convenience of the Examiner, applicants attach PTO-892 reference, forms which have been prepared by examiners in those related applications.

Response to Rejections under 35 U.S.C. §112

Claims 23-24 have been rejected under 35 U.S.C. §112, second paragraph for allegedly being indefinite. In view of the cancellation of claim 24, applicants address only the rejection as it pertains to claim 23.

Regarding claim 23, the Examiner contends that it is unclear in regard to what the gas supply tube is “central.” Accordingly, applicants have amended claim 23 to clarify that the gas supply tube is “central in regard to the stationary fluidized bed.” Accordingly, applicants respectfully submit that claim 23 is compliance with the requirements of 35 U.S.C. §112, second paragraph, and respectfully request withdrawal of the rejection under same.

Response to Rejections under 35 U.S.C. §§102 and 103

The Examiner has rejected claims 15-17, 20, and 24-25 under 35 U.S.C. §102(b) as allegedly being anticipated by U.S. Patent No. 5,505,907 (“Hiltunen”). The Examiner has also rejected claim 21 under 35 U.S.C. §103(a) as allegedly being obvious over Hiltunen in view of U.S. Patent No. 3,884,620 (“Rammler”). Finally, the Examiner has rejected claims 19 and 22 under 35 U.S.C. §103(a) as allegedly being obvious over Hiltunen in view of U.S. Patent No. 3,995,987 (“MacAskill”).

Solely for the purpose of furthering prosecution, and in no way constituting prejudice towards or waiver of any subject matter, applicants have cancelled claims 15-17, 19-22, and 24-25. Accordingly, applicants believe the above-mentioned rejections under 35 U.S.C.

§§102 and 103 to be moot. Applicants therefore respectfully request formal withdrawal of the rejections under same and passing of the application to allowance.

#### Dependent Claims

In view of the allowance of independent claim 1, and the amendment of claim 23 (which depends directly therefrom) to overcome the rejection under 35 U.S.C. §112, second paragraph, applicants respectfully submit that claim 23 is in condition for allowance.

#### **CONCLUSION**

Based on the foregoing amendments and remarks, applicants respectfully request reconsideration and withdrawal of the pending rejections and allowance of this application. Applicants respectfully submit that the instant application is in condition for allowance. Furthermore, applicants respectfully request entry of the amendment and an action passing this case to issue. In the event that a telephone conference would facilitate examination of this application in any way, the Examiner is invited to contact the undersigned at the number provided.

**AUTHORIZATION**

The Commissioner is hereby authorized to charge any additional fees which may be required for consideration of this Amendment to Deposit Account No. **13-4500**, Order No. 4791-4011.

In the event that an extension of time is required, or which may be required in addition to that requested in a petition for an extension of time, the Commissioner is requested to grant a petition for that extension of time which is required to make this response timely and is hereby authorized to charge any fee for such an extension of time or credit any overpayment for an extension of time to Deposit Account No. **13-4500**, Order No. 4791-4011.

Respectfully submitted,  
MORGAN & FINNEGAN, L.L.P.

Dated: October 14, 2008

By: /Andrew D. Cohen/  
Andrew D. Cohen  
Registration No. 61,508

Correspondence Address:  
MORGAN & FINNEGAN, L.L.P.  
3 World Financial Center  
New York, NY 10281-2101  
(212) 415-8700 Telephone  
(212) 415-8701 Facsimile

# APPENDIX

<b>Notice of References Cited</b>	Application/Control No. 10/540,352	Applicant(s)/Patent Under Reexamination STRODER ET AL.	
	Examiner Mark L. Shevin	Art Unit 1793	Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-3,578,798	05-1971	Lapple et al.	432/58
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<b>Notice of References Cited</b>	Application/Control No. 10/540,073	Applicant(s)/Patent Under Reexamination ORTH ET AL.	
	Examiner PREM C. SINGH	Art Unit 1797	Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-4,716,856	01-1988	Beisswenger et al.	122/4D
*	B	US-5,560,762	10-1996	Bresser et al.	75/447
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<b>Notice of References Cited</b>	Application/Control No. 10/540,435	Applicant(s)/Patent Under Reexamination ORTH ET AL.	
	Examiner Mark L. Shevin	Art Unit 1793	Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-3,884,620	05-1975	Rammler, Roland	432/15
*	B	US-4,073,642	02-1978	Collin et al.	75/448
*	C	US-4,789,580	12-1988	Hirsch et al.	75/500
*	D	US-5,505,907	04-1996	Hiltunen et al.	422/146
*	E	US-5,527,379	06-1996	Hirsch et al.	75/436
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N	WO 90/11824	10-1990	Finland	Engstrom	B01J 8/44
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Y.T. Kim et al, Entrainment of solids in an internally circulating fluidized bed with draft tube. Chemical Engineering Journal, Vol. 66, (1997), p. 105-110.
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



<b>Notice of References Cited</b>	Application/Control No. 10/540,435	Applicant(s)/Patent Under Reexamination ORTH ET AL.	
	Examiner Mark L. Shevin	Art Unit 1793	Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-2,607,666	08-1952	MARTIN HOMER Z	48/62R
*	B	US-3,578,798	05-1971	Lapple et al.	432/58
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<b>Notice of References Cited</b>	Application/Control No. 10/540,434	Applicant(s)/Patent Under Reexamination HIRSCH ET AL.	
	Examiner Mark L. Shevin	Art Unit 1793	Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-5,505,907	04-1996	Hiltunen et al.	422/146
*	B	US-5,527,379	06-1996	Hirsch et al.	75/436
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Y.T. Kim et al, Entrainment of solids in an internally circulating fluidized bed with draft tube. Chemical Engineering Journal, Vol. 66, (1997), p. 105-110.
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<b>Notice of References Cited</b>	Application/Control No. 10/540,434	Applicant(s)/Patent Under Reexamination HIRSCH ET AL.	
	Examiner Mark L. Shevin	Art Unit 1793	Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-3,578,798	05-1971	Lapple et al.	432/58
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<b>Notice of References Cited</b>	Application/Control No. 10/540,071	Applicant(s)/Patent Under Reexamination HIRSCH ET AL.	
	Examiner JOHN A. HEVEY	Art Unit 1793	Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-4,822,592 A	04-1989	Misra, Chanakya	423/627
*	B	US-5,269,236 A	12-1993	Okuno et al.	110/297
*	C	US-5,505,907 A	04-1996	Hiltunen et al.	422/146
*	D	US-6,015,539 A	01-2000	Schmidt et al.	423/625
*	E	US-2006/0231466 A1	10-2006	Nuber, Dirk	209/011
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N	WO 04/056465	07-2004	WO	Nuber et al.	BO1J 8/18
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<b>Notice of References Cited</b>	Application/Control No. 10/540,438	Applicant(s)/Patent Under Reexamination FREYTAG ET AL.	
	Examiner Gregory A. Wilson	Art Unit 3749	Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-4,817,563 A1	04-1989	Beisswenger et al.	122/4D
*	B	US-5,205,350 A	04-1993	Hirsch et al.	165/104.18
*	C	US-4,080,437 A1	03-1978	Reh et al.	423/625
*	D	US-4,402,754 A1	09-1983	Schmidt et al.	106/744
*	E	US-5,505,907 A	04-1996	Hiltunen et al.	422/146
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<b>Notice of References Cited</b>	Application/Control No. 10/540,437	Applicant(s)/Patent Under Reexamination STRÖDER ET AL.	
	Examiner TIMOTHY C. VANOY	Art Unit 1793	Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-6,413,477 B1	07-2002	Govoni et al.	422/131
*	B	US-2,864,674	12-1958	KING WILLIAM R	23/314
*	C	US-2,714,126	07-1955	KEITH PERCIVAL C	585/535
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

<b>Notice of References Cited</b>	Application/Control No. 10/540,376	Applicant(s)/Patent Under Reexamination NUBER ET AL.	
	Examiner Mark L. Shevin	Art Unit 1793	Page 1 of 1

**U.S. PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
*	A	US-3,578,798	05-1971	Lapple et al.	432/58
*	B	US-4,080,437	03-1978	Reh et al.	423/625
*	C	US-4,402,754	09-1983	Schmidt et al.	106/744
*	D	US-4,817,563	04-1989	Beisswenger et al.	122/4D
*	E	US-5,505,907	04-1996	Hiltunen et al.	422/146
*	F	US-2006/0231433	10-2006	Rufo et al.	206/308.1
*	G	US-2006/0230879	10-2006	Stroder et al.	075/444
*	H	US-2006/0230880	10-2006	Hirsch et al.	075/444
*	I	US-2006/0249100	11-2006	Freytag et al.	122/400
*	J	US-2007/0137435	06-2007	Orth et al.	075/451
	K	US-			
	L	US-			
	M	US-			

**FOREIGN PATENT DOCUMENTS**

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N	AU 9894057 A1	05-2000	Australia	Formanek et al	C22B 05/14
	O	WO 90/11824	10-1990	Finland	Engstrom et al	B01J 8/44
	P					
	Q					
	R					
	S					
	T					

**NON-PATENT DOCUMENTS**

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.